

CERTIFICATE OF ANALYSIS

Product : **L-TRYPTOPHAN**
 Product number : T0720
 Batch number : 012141
 Date of analysis : 06-01-2016
 Expiry date : 31-01-2021

Packaging and storage : store protected from light

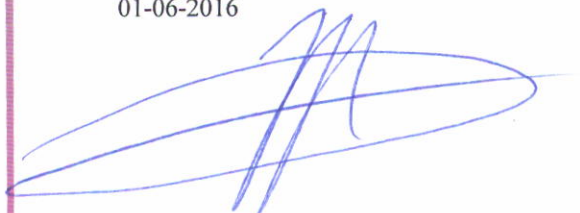
Description	SPECIFICATION	RESULT	UNITS	REMARKS
Description	white to almost white crystalline powder	complies		
Identification	conform	complies		
Appearance of solution	conform	complies		1% in 1M HCl
Specific optical rotation	-33.0 – -30.0	-31.93	°	1% in H ₂ O
Ninhydrin-positive substances	conform	conform	%	HPLC
Impurity A and other related substances	conform	conform		HPLC
pH	5.5 – 7.0	5.84		1% in H ₂ O
Chlorides	≤ 200	< 200	ppm	
Sulphates	≤ 300	< 300	ppm	
Ammonium	≤ 200	< 200	ppm	
Iron	≤ 20	< 20	ppm	
Heavy metals	≤ 10	< 10	ppm	
Loss on drying	≤ 0.3	0.00	%	105 °C
Sulphated ash	≤ 0.1	< 0.1	%	
Assay	98.5 – 101.0	99.62	%	dried substance

This certificate of analysis is conform the results of the manufacturer.

Conclusion: approved
 Released by:

drs. M. van Wissen, pharmacist
 Department of Quality Control Duchefa B.V.

01-06-2016



The buyer is responsible to test each batch to ensure the product is suitable for their specific purpose.